



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY AUBURN HILLS
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MECHANICAL

Valid To: May 31, 2026

Certificate Number: 1123.11

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests using the parameters and methods listed below on the following products and materials: abrasives; automotive components; coatings; glass and glass products; textiles; instrument clusters; and circuit boards.

Test Type	Test Parameters	Test Methods/Standard
High/Low/Cyclic Temperature without Humidity ¹	(-70 to 300) °C	EPS-24126248; EPS-24138553; FCA CS.00056 sections 5.3.1, 5.3.2, 5.3.3, 5.3.4; Ford CEPT:00:00-E-412 sections 5.1, 5.2, 5.3, 5.4, 5.5, 5.17; GMW 3172 ² sections 9.4.1-9.4.3; GMW 3191 section 4.4; USCAR-2 section 5.6.3; MIL-STD-810(G,H) methods 501, 502; MIL-STD-202(G,H) method 108; JDQ 53.3; ISO 16750-4; Hyundai/KIA ES95400-10; IEC 60068-2-14
Temperature Capability with Humidity ¹	(-50 to 150) °C (30% to 95%) RH	EPS-24126248; EPS-24138553; FCA CS.00056 sections 5.3.6, 5.3.7; Ford CEPT:00:00-E-412 sections 5.8, 5.20; GMW 3172 ² sections 9.4.5, 9.4.6; GMW 3191 sections 4.4.3, 4.4.4;

Test Type	Test Parameters	Test Methods/Standard
		USCAR-2 sections 5.6.2; USCAR-21 section 4.5.4; MIL-STD-810(G,H) method 507; MIL-STD-202(G,H) methods 103, 106; JDQ 53.3; Hyundai/KIA ES95400-10; ISO 16750-4; IEC 60068-2-38; IEC 60068-2-78
Thermal Shock ¹	(-70 to 300) °C Air to Air	EPS-24126248; EPS-24138553; FCA CS.00056 section 5.3.5; Ford CEPT:00:00-E-412 sections 5.6, 5.7; GMW 3172 ² section 9.4.2; GMW 3191 section 4.4.2; USCAR-2 section 5.6.1; USCAR-21 section 4.5.5; MIL-STD-810(G,H) method 503; MIL-STD-202(G,H) method 107; JDQ 53.3; ISO 16750-4
Force Testing Tension and Compression ¹	Up to 10 kN	EPS-24126248; EPS-24138553; FCA CS.00056 section 5.4.2; Ford CEPT:00:00-E-412; GMW 3172 ² section 9.3.7; GMW 3191; USCAR-2; USCAR-21
Dynamometer ¹ Driveline: Performance, Fatigue, Durability	Up to 600 HP, Torque Up to 8,333 ft/lbs, Speed Up to 25,000 RPM	GMW15788:2014 ²
Pressure ¹	0 to 2000 psi	ISO 20653 9K only
Liquid Flow ¹	up to 39 gpm	ISO 20653 9K only

Test Type	Test Methods
Salt Fog/Mist	ASTM B117; FCA CS.00056 section 5.5.5; Ford CEPT:00:00-E-412 section 5.15; GMW 3172 ² section 9.4.7; GMW 3191 section 4.4.7; SAE J1455; NaCl only; MIL-STD-202(G,H) method 101; MIL-STD-810(G,H) method 509; IEC 60068-2-11
Gravel Impact ¹	EPS-24126248; SAE J400
Chemical Resistance ¹	EPS-24126248; EPS-24138553; GM3172 ² ; FCS CS CS.00056; Ford CETP 00.00-E-412; ISO 16750-5; GMW 14334; GMW 16449
Water Spray	DIN 40050-9e, IP9K only; FCA CS.00056 section 5.5.3, IP9K only; GMW 3172 ² Section 9.5.2, IPK only; USCAR-2 sections 5.6.74; IEC 60529; IP9 only; ISO 20653 IP9K only

I. Dimensional Testing

Parameter	Range	Technique/Method
Linear (1D) ¹	40in. x 48in. x 24in. (+/- .0005in.)	Coordinate Measurement Machine (CMM)

¹Also using customer specifications directly related to the types of tests and parameters listed.

²This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn including but not limited to GMW 3172 (2008, 2010, 2012, 2015,2018).



Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY AUBURN HILLS

Auburn Hills, MI

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 25th day of July 2024.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1123.11
Valid to May 31, 2026

For the types of tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.